

IN THE SPECIFICATION:

Please replace paragraph [18] with the following paragraph:

FIG. 1 illustrates a diagram showing a basic ~~algorithm~~algorithm of a digital TV receiving smart antenna control system in accordance with the present invention.

Please replace paragraph [0044] with the following paragraph:

Hereinafter, the digital TV receiving antenna control system and the controlling method of the same will be described in reference to appended drawings. FIG. 1 illustrates a ~~conceptional~~conceptual diagram showing a basic ~~algorithm~~algorithm of a digital TV receiving smart antenna control system in accordance with the present invention.

Please replace paragraph [0045] with the following paragraph:

As illustrated in FIG. 1, a basic concept of the antenna control ~~algorithm~~algorithm of the control system is that an optimal antenna direction is determined by acquiring the signal power at a predetermined degree (for example, -180°, -90°, 0°, 90°, 180°) through 360° scanning of the smart antenna and by acquiring a maximum signal power location through converging the signal power to the antenna direction tracking loop in a predetermined degree unit.

Please replace paragraph [0047] with the following paragraph:

The VSB modulator 102 includes an AGC, a symbol/carrier/sync recoverer, a channel equalizer, a channel decoder (for example, FEC: forward error correction) and modulates the VSB signal received through the smart antenna system 101 for outputting in a transport packet form. In this case, the AGC method of the digital TV receiver is the same as illustrated in FIG. 3 and FIG. 4. [[*]]

Please replace paragraph [0088] with the following paragraph:

1. The auto gain controller is fixed as a specific value (~~S-2501-S2502~~S1201-S1202).

Please replace paragraph [0089] with the following paragraph:

2. The antenna direction is rotated to 360° and confirms whether the receiving signal exists (~~S2503-S2508~~S1203-S1208).

Please replace paragraph [0090] with the following paragraph:

3. The antenna is rotated to 360° from the direction of the receiving signal for acquiring the maximum signal power direction (~~S2509-S2514~~S1209-S1214).

Please replace paragraph [0091] with the following paragraph:

4. The antenna tracking process is started after acquiring the maximum signal power direction (~~S2515-S2519~~S1215-S1219).

Please replace paragraph [0092] with the following paragraph:

5. Reception is watched by reading the channel condition information (~~S2519~~S1219).

Please replace paragraph [0093] with the following paragraph:

6. When the receiving condition is bad, the reacquisition process is prepared and the process of the step 1 is repeated (~~S2520-S2521~~S1220-S1221).

Please replace paragraph [0098] with the following paragraph:

The timer 101 calculates the delay time of each the process of the scan processor 1102. In this case, the flow diagram calculating the delay time for each process is illustrated in FIG. 13. As illustrated in FIG. 13, the delay time being a variable determined by environment and condition id_is_programmed at the timer 1101.